VideoRaid Configuration Guide
RAID 0 & Fail-Safe SCSI Models

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Introduction

This guide is designed to help you configure your content creation system to work optimally with VideoRaid disk arrays featuring a SCSI interface. *If your system/capture board is not listed in this guide, no special requirements are necessary for configuration*. Check the Compatibility Matrix for a complete list of qualified content creation systems.

Medea manufactures both RAID 0 and fail-safe VideoRaid models as shown below.

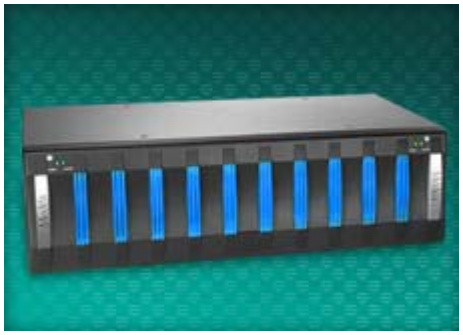
RAID 0 Models

VideoRaid scsi/VideoRaid RT

VideoRaid LP

Fail-Safe Models

VideoRaid RTR (blue lights)



VideoRaid RTRX

VideoRaid RTS (green lights)

Medea's fail-safe disk array models feature an on-board caching RAID 3 controller with proprietary Multi-Stream Technology (MST™). MST can be "tweaked" to optimize VideoRaid for your specific application. Basically, MST has multiple settings that can be modified using a utility that runs under Mac OS and Windows. Fail-safe VideoRaid units are shipped with a default MST setting of "MST 1", the proper setting for the majority of content creation applications. Be sure to check the recommended MST setting for your application when using fail-safe VideoRaid disk arrays.

SCSI Host Adapter Compatibility

The SCSI host adapters listed in the table below have been approved for use with VideoRaid disk arrays.

Operating System	Recommended SCSI HBA
Mac OS 9	Adaptec 29160/39160 or Atto UL3S/UL3D
Mac OS X Jaguar (10.2.x)	Atto UL3S/UL3D
Windows 95/98/Me/NT/2000/XP	Adaptec 29160/39160 or Atto UL3S/UL3D

Updates for Adaptec SCSI host adapters are available at:
www.adaptec.com/worldwide/support/supportindex.html?sess=no&language=English+US

Updates for ATTO SCSI host adapters are available at:
www.attotech.com/software/index.html

Accom - Affinity

RAID 0 VideoRaid Models

Product	Compatible VideoRaid Fail-Safe Models			Notes
	scsi	RT	LP	
Affinity		•	•	Stripe two RT or LP units with Atto ExpressRAID v2.3 or SoftRAID v2.2.2 to support playback of 2-streams of uncompressed video in real-time.

Fail-Safe VideoRaid Models

Product	Compatible VideoRaid Fail-Safe Models			Required MST Setting	Notes
	RTR	RTS	RTRX		
Affinity	•	•	•	Option 1 (default)	A single RTR/RTS and each channel of RTRX supports the playback of 2-streams of uncompressed video in real-time.

Accom – WSD/HD

RAID 0 VideoRaid Models

Product	Compatible VideoRaid Fail-Safe Models			Notes
	scsi	RT	LP	
WSD/HD		•	•	Stripe four RT or LP units with Windows *Disk Management* utility using two Adaptec 39160 SCSI host adapters.

Fail-Safe VideoRaid Models – No recommended models

AJA – Kona-SD

RAID 0 VideoRaid Models – No recommended models

Fail-Safe VideoRaid Models

Product	Compatible VideoRaid Fail-Safe Models			Required MST Setting	Notes
	RTR	RTS	RTRX		
Kona-SD	•	•	•	Option 1 (default)	A single RTR/RTS and each channel of RTRX supports the playback of 2-streams of uncompressed video in real-time. Use an Atto UL3S/UL3D SCSI host adapter. Must have VideoRaid x148 firmware or better.

Aurora – Igniter

RAID 0 VideoRaid Models

Product	Compatible VideoRaid RAID 0 Models			Operating System Compatibility		Notes
	scsi	RT	LP	OS 9	OS 10.2.x	
Igniter – All models		•	•	•		Use an Adaptec 29/39160 or Atto UL3S/UL3D SCSI adapter.

Fail-Safe VideoRaid Models

Product	Compatible VideoRaid Fail-Safe Models			Operating System Compatibility		Required MST Setting		Notes
	RTR	RTS	RTRX	OS 9	OS 10.2.x	OS 9	OS 10.2.x	
Igniter – All models	•	•	•	•	•	Option 1 (default)	Option 1 (default)	**OS 9:** Use an Adaptec 29/39160 or Atto UL3S/UL3D SCSI adapter. **OS X:** Use an Atto UL3S/UL3D. Must have VideoRaid x148 firmware or better.

Avid – Windows-based systems

- See the *VideoRaid Support for Avid Systems* document for more information

RAID 0 VideoRaid Models

Product	Compatible VideoRaid Fail-Safe Models			Notes
	scsi	RT	LP	
Film Composer	●	●	●	Stripe (2) scsi/RT/LP units to support playback of 2-streams of uncompressed video in real-time.
Media Composer	●	●	●	Stripe (2) scsi/RT/LP units to support playback of 2-streams of uncompressed video in real-time.
Symphony	●	●	●	Stripe (2) scsi/RT/LP units to support playback of 2-streams of uncompressed video in real-time.
Xpress	●	●	●	Stripe (2) scsi/RT/LP units to support playback of 2-streams of uncompressed video in real-time.

Fail-Safe VideoRaid Models

Product	Compatible VideoRaid Fail-Safe Models			Required MST Setting	Notes
	RTR	RTS	RTRX		
Film Composer	●	●	●	Option 7 (Click here for instructions to change the default MST setting)	A single RTR/RTS and each channel of RTRX supports the playback of 2-streams of uncompressed video in real-time.
Media Composer	●	●	●	Option 7 (Click here for instructions to change the default MST setting)	A single RTR/RTS and each channel of RTRX supports the playback of 2-streams of uncompressed video in real-time.
Symphony	●	●	●	Option 7 (Click here for instructions to change the default MST setting)	A single RTR/RTS and each channel of RTRX supports the playback of 2-streams of uncompressed video in real-time.
Xpress	●	●	●	Option 7 (Click here for instructions to change the default MST setting)	A single RTR/RTS and each channel of RTRX supports the playback of 2-streams of uncompressed video in real-time.

Avid – Mac-based systems

- See the *VideoRaid Support for Avid Systems* document for more information

RAID 0 VideoRaid Models

Product	Compatible VideoRaid Fail-Safe Models			Notes
	scsi	RT	LP	
Film Composer	●	●	●	Stripe two scsi, RT or LP units with the AvidDrive utility to support playback of 2-streams of uncompressed video in real-time.
Media Composer	●	●	●	Stripe two scsi, RT or LP units with the AvidDrive utility to support playback of 2-streams of uncompressed video in real-time.
Xpress	●	●	●	Stripe two scsi, RT or LP units with the AvidDrive utility to support playback of 2-streams of uncompressed video in real-time.

Fail-Safe VideoRaid Models

Product	Compatible VideoRaid Fail-Safe Models			Required MST Setting	Notes
	RTR	RTS	RTRX		
Film Composer	●	●	●	Option 7 (Click here for instructions to change the default MST setting)	A single RTR/RTS and each channel of RTRX supports the playback of 2-streams of uncompressed video in real-time.
Media Composer	●	●	●	Option 7 (Click here for instructions to change the default MST setting)	A single RTR/RTS and each channel of RTRX supports the playback of 2-streams of uncompressed video in real-time.
Xpress	●	●	●	Option 7 (Click here for instructions to change the default MST setting)	A single RTR/RTS and each channel of RTRX supports the playback of 2-streams of uncompressed video in real-time.

Digital Voodoo – D1 64RT, D1 64AV, D1 64, D1 64 lite, Iridium AV, Iridium SD

RAID 0 VideoRaid Models

Product	Compatible VideoRaid RAID 0 Models			Operating System Compatibility		Notes
	scsi	RT	LP	OS 9	OS 10.2.x	
D1 64RT, 64AV, 64, 64 lite		•	•	•		Use an Adaptec 29/39160 or Atto UL3S/UL3D SCSI adapter.
Iridium AV, SD		•	•	•		Use an Adaptec 29/39160 or Atto UL3S/UL3D SCSI adapter.

Fail-Safe VideoRaid Models

Product	Compatible VideoRaid Fail-Safe Models			Operating System Compatibility		Required MST Setting		Notes
	RTR	RTS	RTRX	OS 9	OS 10.2.x	OS 9	OS 10.2.x	
D1 64RT, 64AV, 64, 64 lite	•	•	•	•	•	Option 1 (default)	Option 1 (default)	**OS 9:** Use an Adaptec 29/39160 or Atto UL3S/UL3D SCSI adapter. **OS X:** Use an Atto UL3S/UL3D. Must have VideoRaid x148 firmware or better.
Iridium AV, SD	•	•	•	•	•	Option 1 (default)	Option 1 (default)	**OS 9:** Use an Adaptec 29/39160 or Atto UL3S/UL3D SCSI adapter. **OS X:** Use an Atto UL3S/UL3D. Must have VideoRaid x148 firmware or better.

Pinnacle Systems - CineWave

- When using CineWave with any VideoRaid disk array, make sure that no Iomega extensions are loaded.
- The CineWave benchmark utility does not provide accurate test results with fail-safe (RTR/RTRX/RTS) VideoRaid units.

Click here for Pinnacles' *CineWave Configuration and Qualification* document

RAID 0 VideoRaid Models

Product	Compatible VideoRaid RAID 0 Models			Operating System Compatibility		Notes
	scsi	RT	LP	OS 9	OS 10.2.x	
CineWave SD		●	●	●		Use an Adaptec 29160 or 39160 SCSI host adapter.
CineWave RT/RT Pro		●	●	●		Requires two units striped together with SoftRAID v2.2.2 on an Adaptec 39160 SCSI host adapter.
CineWave HD		●	●	●		Requires two units striped together with SoftRAID v2.2.2 on an Adaptec 39160 SCSI host adapter

Fail-Safe VideoRaid Models

Product	Compatible VideoRaid Fail-Safe Models			Operating System Compatibility		Required MST Setting		Notes
	RTR	RTS	RTRX	OS 9	OS 10.2.x	OS 9	OS 10.2.x	
CineWave SD	●	●	●	●		Option 1 (default)		Use an Adaptec 29160/39160
CineWave RT/RT Pro	●	●	●	●	●	Option 1 (default)	Option 1 (default)	**OS 9:** Use an Adaptec 29160/39160 SCSI adapter. **OS X:** Use an Atto UL3S/UL3D SCSI host adapter. Must have VideoRaid x148 firmware or better.
CineWave HD	●	●	●	●	●	Option 7 (Click here for instructions to change the default MST setting)	Option 1 (default)	Requires (2) RTR /RTS units or a 10-drive RTRX striped across a dual channel SCSI adapter. **OS 9:** Use an Adaptec 39160 and SoftRAID v2.2.2 to configure a stripe set. **OS X:** Use an Atto UL3D and Atto Express Stripe v1.2 to configure a stripe set. Must have VideoRaid x148 firmware or better

Pinnacle Systems – TARGA 3000

Click here for Pinnacles' *TARGA 3000 Configuration Cookbook* document

RAID 0 VideoRaid Models – No recommended models

Fail-Safe VideoRaid Models

Product	Compatible VideoRaid Fail-Safe Models			Required MST Setting	Notes
	RTR	RTS	RTRX		
TARGA 3000	•	•	•	Option 1 (default)	A single RTR/RTS or 5-drive RTRX supports the playback of **2-streams** YUV in real-time. Two RTR/RTS units or a 10-drive RTRX support the playback of **3-streams** YUV in real-time when striped together using an Adaptec 39160 and the Windows *Disk Management* utility.